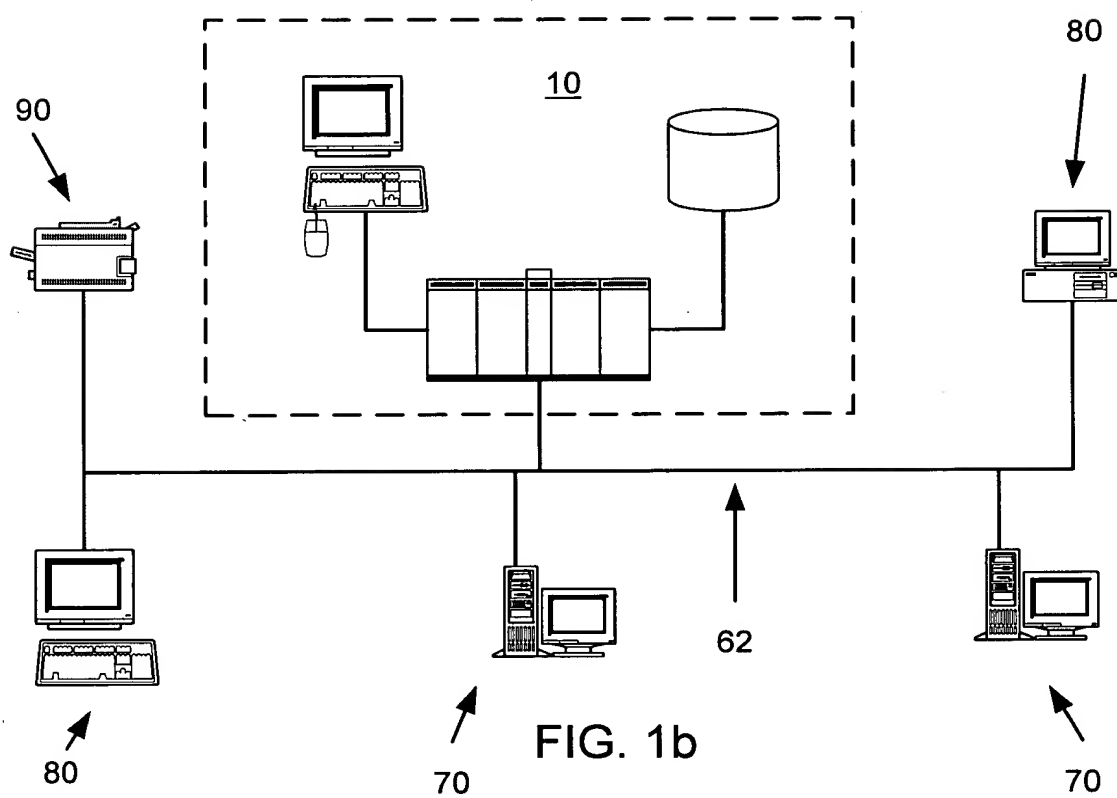


The diagram illustrates the architecture of the Insurance Claims Processing System 10. It features a central processing unit, the Insurance Claims Processing Program 60, which is housed within a Memory 30 module. This Memory 30 module is part of a larger System 20. The program 60 is connected to several external components: it receives input from Input devices 52 and Cursor control devices 54; it outputs data to a Display Screen 50; and it interacts with two databases, the Insurance Database 40 and the Help Database 400, which are represented as cylinders. Arrows indicate the flow of data and control between these components.

```
graph TD
    subgraph System_20 [System 20]
        subgraph Memory_30 [Memory 30]
            Insurance_Claims_Processing_Program_60[Insurance Claims Processing Program 60]
        end
    end
    Input_devices_52[Input devices 52] --> Insurance_Claims_Processing_Program_60
    Cursor_control_devices_54[Cursor control devices 54] --> Insurance_Claims_Processing_Program_60
    Insurance_Claims_Processing_Program_60 --> Display_Screen_50[Display Screen 50]
    Insurance_Claims_Processing_Program_60 <--> Insurance_Database_40[(Insurance Database 40)]
    Insurance_Claims_Processing_Program_60 <--> Help_Database_400[(Help Database 400)]
```

FIG. 1a

U.S. DEPARTMENT OF AGRICULTURE



OBJECT ID	PARENT ID	BYTE COUNT	NAME
10100000000000	10000000000000	1	< Header 1 >
10101010000000	10100000000000	26	< Header 2 >
10101010000000	10101010000000	925	< Header 3 >
10102010000000	10101020000000	1408	< Header 4 >
....

OBJECT ID	PARENT ID	BYTE COUNT	TEXT
1010100000001	1010100000000	36	< Section 1 Text >
1010100000002	1010100000000	362	< Section 2 Text >
1010101000001	1010101000000	967	< Section 3 Text >
1010102000001	1010102000000	1429	< Section 4 Text >
....

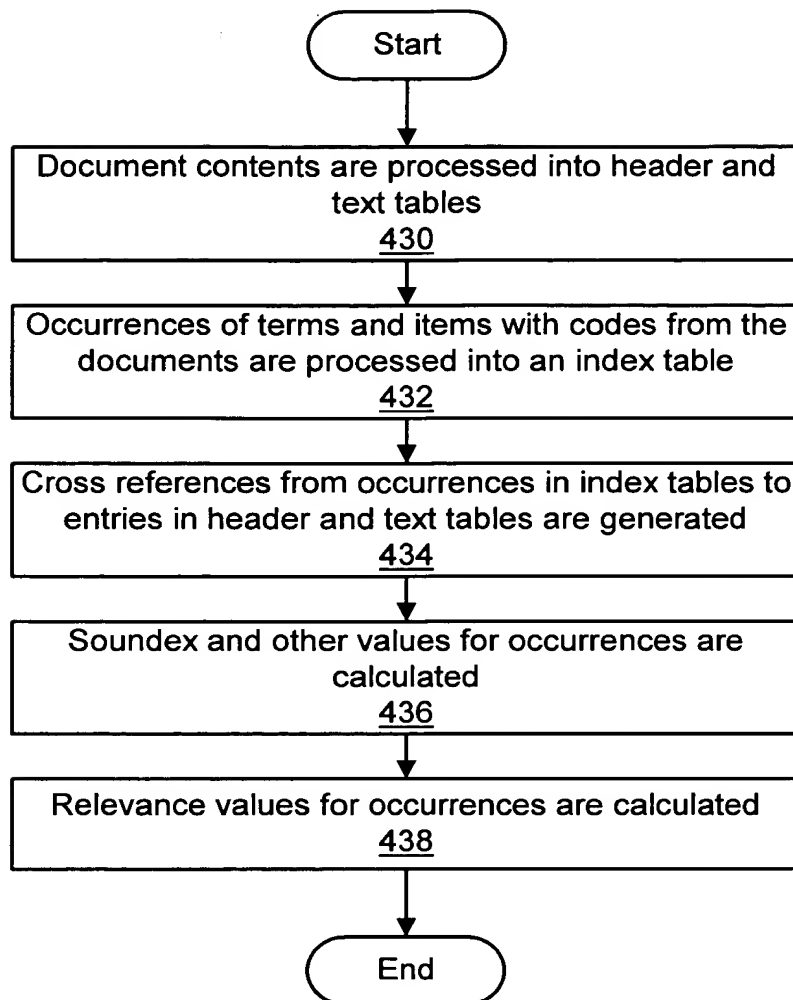


FIG. 6a

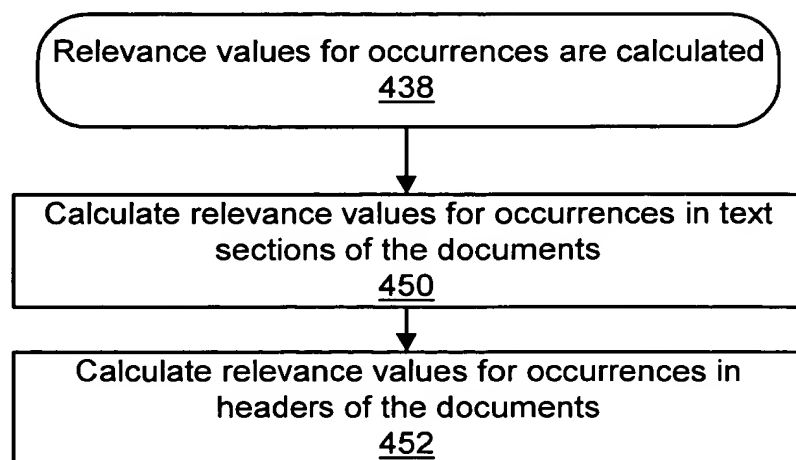


FIG. 6b

```
graph TD; 450([Calculate relevance values for occurrences in text sections of the documents  
450]) --> 460[Subtract occurrence position from total words  
460]; 460 --> 462[Add one  
462]; 462 --> 464[Divide by total words  
464]; 464 --> 466[Multiply by first scaling factor  
466]; 466 --> 467[Round relevance  
467]; 467 --> 468[Output relevance for text section occurrence  
468];
```

FIG. 6c

002230" 29920960

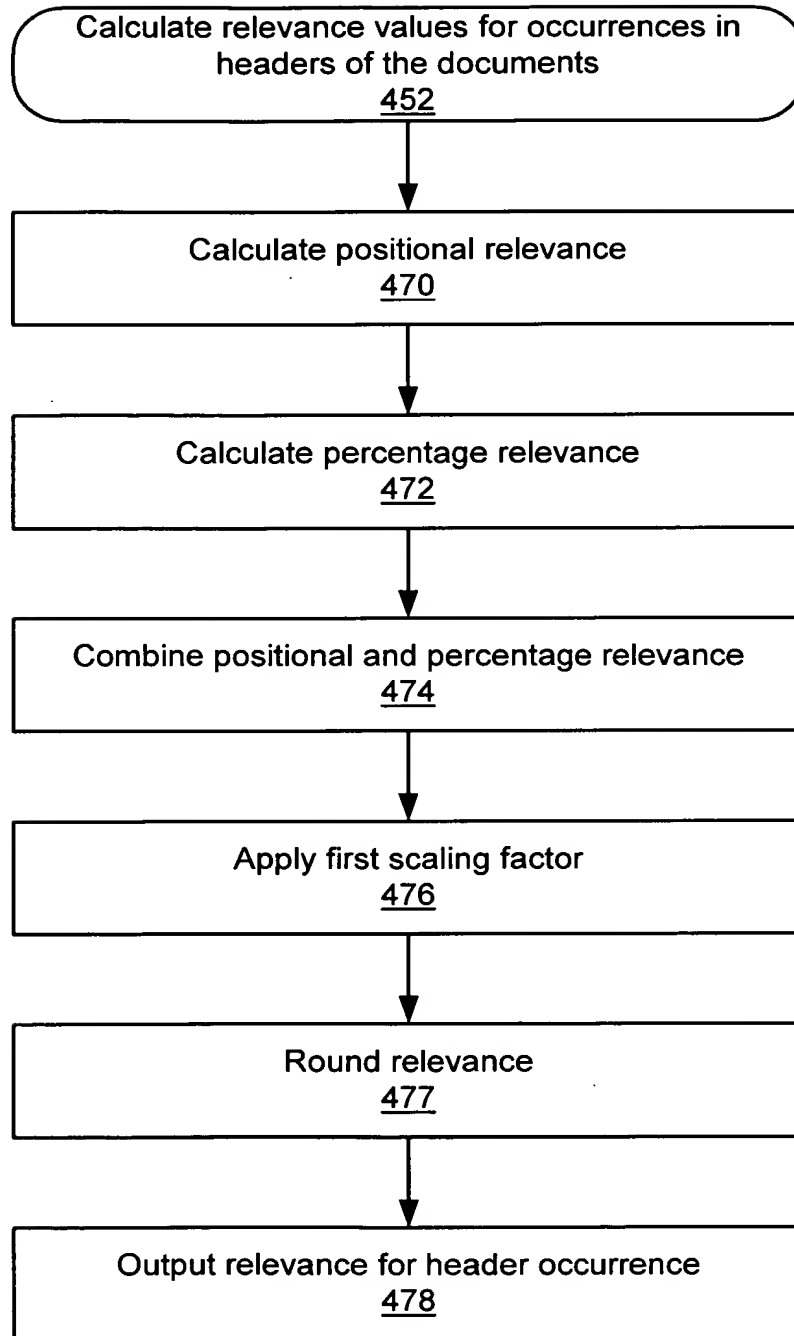


FIG. 6d


```
graph TD; A([Calculate positional relevance  
470]) --> B[Subtract occurrence position from total words  
480]; B --> C[Add one  
482]; C --> D[Divide by total words  
484];
```

Calculate positional relevance
470

Subtract occurrence position from total words
480

Add one
482

Divide by total words
484

```
graph TD; A([Calculate percentage relevance  
472]) --> B[Divide number of words in the term by the number of words in the header  
486];
```

FIG. 6f

```
graph TD; A([Combine positional and percentage relevance  
474]) --> B[Multiply positional relevance by second scaling factor  
490]; B --> C[Multiply percentage relevance by (1 - second scaling factor)  
492]; C --> D[Add the two scaled relevance values  
494];
```

Combine positional and percentage relevance
474

↓

Multiply positional relevance by second scaling factor
490

↓

Multiply percentage relevance by (1 - second scaling factor)
492

↓

Add the two scaled relevance values
494

```

graph TD
    A([Apply first scaling factor  
476]) --> B[Multiply combined relevance value by (1 - first  
scaling factor)  
496]
    B --> C[Add first scaling factor  
498]

```

FIG. 6h

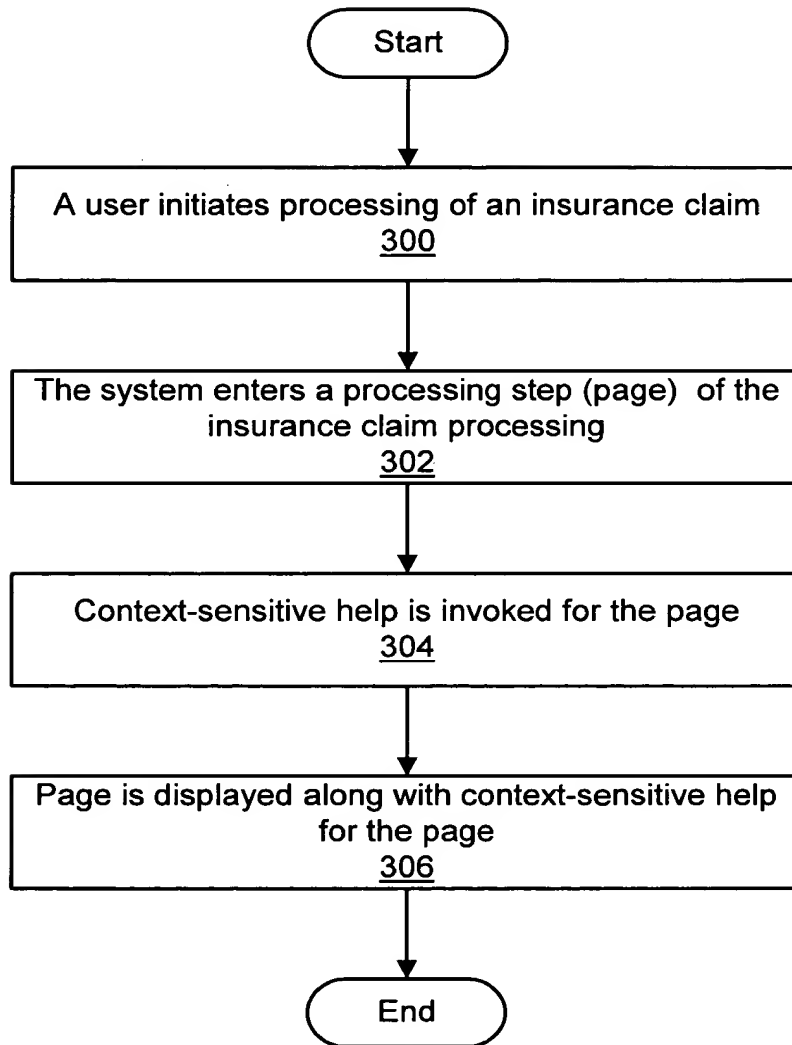


FIG. 7a

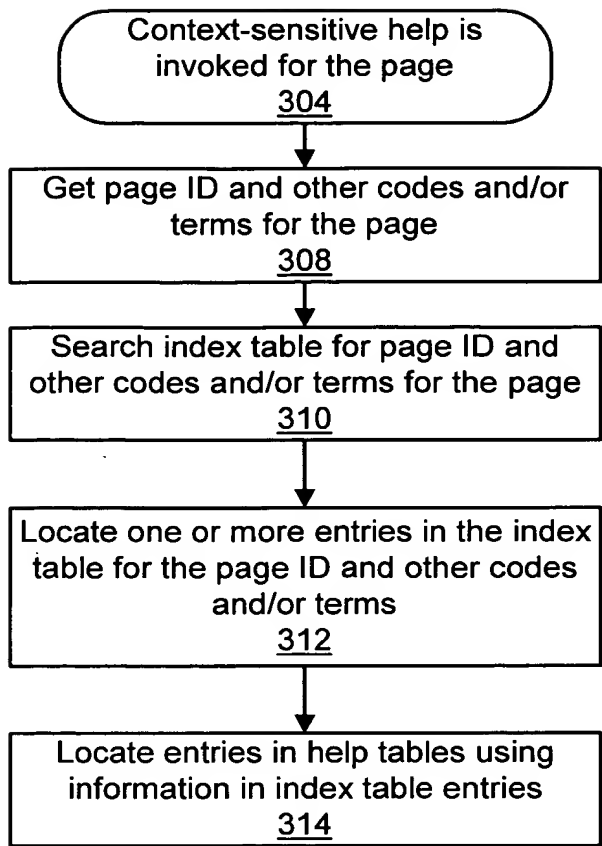


FIG. 7b

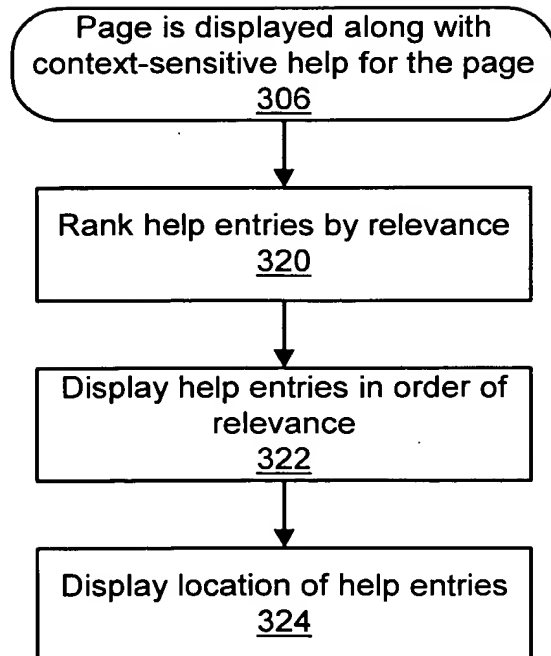


FIG. 7c

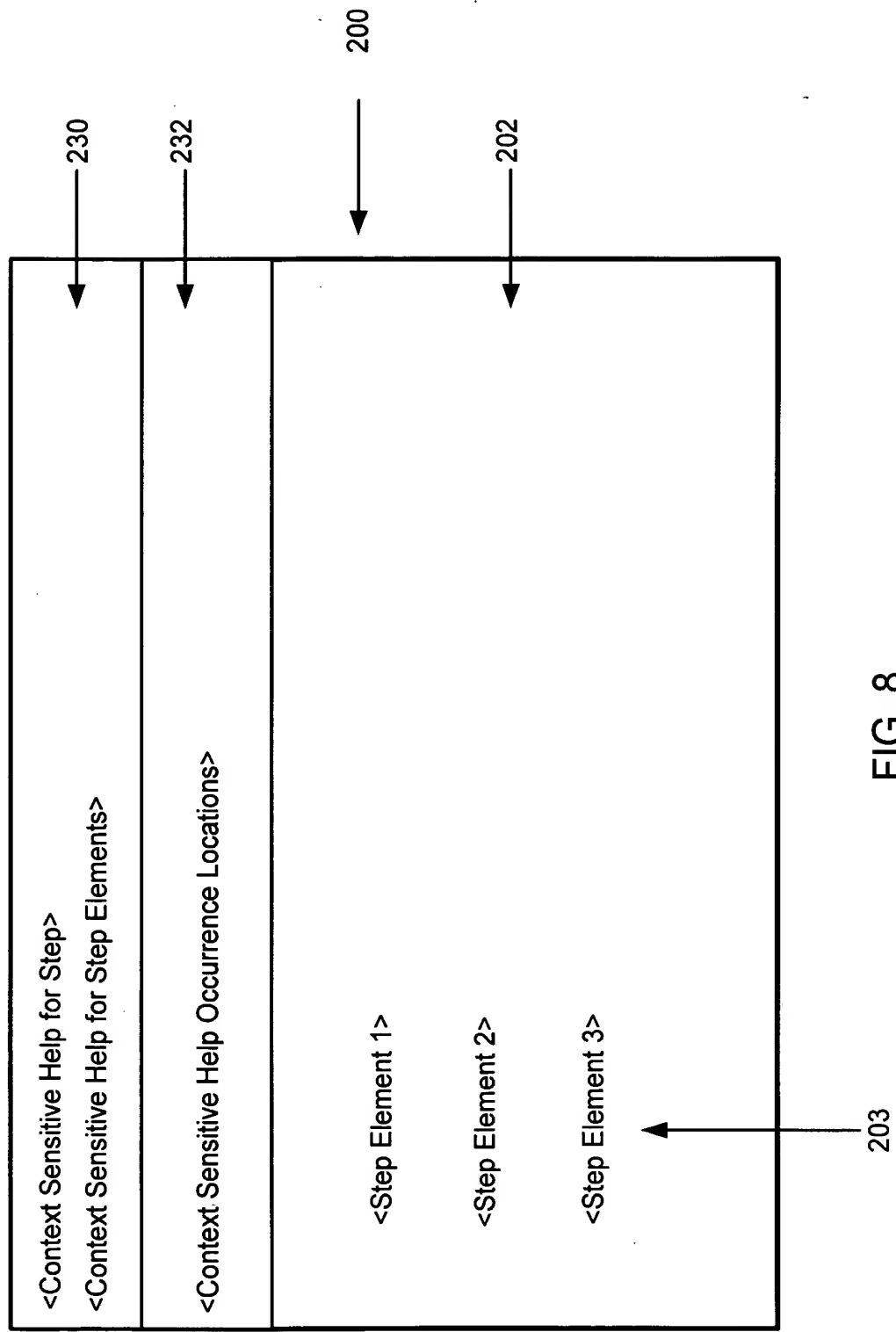


FIG. 8

Start

The user initiates a search for one or more terms
350

Search index table for the one or more terms
352

Locate one or more entries in the index table for the one or more terms
354

Locate entries in help tables using information in index table entries
356

Rank entries by relevance
358

Display entries in order of relevance
360

Display location of entries
362

End

FIG. 9

Reference System

Chapter Headers - 'S' to Select - 'E' to Expand

Chapter 22 Medical Glossary

Chapter 23 Injury Codes byd

Chapter 24 Injury Codes byd

Context Sensitive Help

CLAIM NUMBER

CLAIM Number:

Enter the Claim Number.

Claimant Number:

Since multiple Claimants are often involved, you must enter the Claimant Number to indicate the specific Claimant you want to evaluate.

Injury Description:

206

200

202

220

FIG. 11